

INTERNATIONAL SEARCH REPORT

onal Application No

IB2004/052031

| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H03M7/00 H03M3/02 | | |
|---|---|--|
| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H03M | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, INSPEC, COMPENDEX | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | HARPE P ET AL: "EFFICIENT TRELLIS-TYPE SIGMA DELTA MODULATOR" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, vol. 114, no. 5845, 22 March 2003 (2003-03-22), XP009038506 the whole document | 1-10 |
| A | LOU H: "Viterbi decoder design for the IS-95 CDMA forward link" VEHICULAR TECHNOLOGY CONFERENCE, 1996. MOBILE TECHNOLOGY FOR THE HUMAN RACE., IEEE 46TH ATLANTA, GA, USA 28 APRIL-1 MAY 1996, NEW YORK, NY, USA, IEEE, US, 28 April 1996 (1996-04-28), pages 1346-1350, XP010162610 ISBN: 0-7803-3157-5 page 1349, left-hand column | 1-10 |
| -/-- | | |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input type="checkbox"/> Patent family members are listed in annex. | | |
| * Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family | | |
| Date of the actual completion of the international search | | Date of mailing of the international search report |
| 14 December 2004 | | 28/12/2004 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | | Authorized officer Gerdes, R |

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| A | <p>KATO H: "TRELLIS NOISE-SHAPING CONVERTERS AND 1-BIT DIGITAL AUDIO" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, vol. 112, no. 5615, 10 May 2002 (2002-05-10), XP009038520 page 2, right-hand column - page 3, left-hand column</p> <p>-----</p> | 1-10 |